

**DSN Mission Set Process**  
**Goddard Space Flight Center**  
**March 20, 2003**

**D. G. Morris**

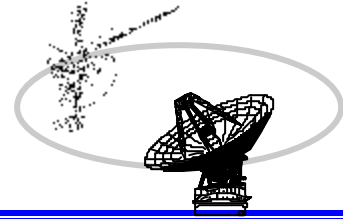
**Jet Propulsion Laboratory  
California Institute of Technology**





Interplanetary Network Directorate (IND)  
Deep Space Mission Systems (DSMS)

Resource Allocation Planning & Scheduling Office (RAPSO)

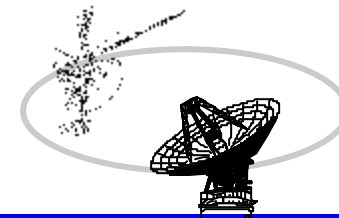


## AGENDA

- DSN Resource Allocation and Planning Process
- DSN Mission Set Process
- DSN Mission Sets and Definitions
  - Ongoing/Planned and Advanced Missions
  - 26M / LEO Missions
  - Future Missions (Abraham)

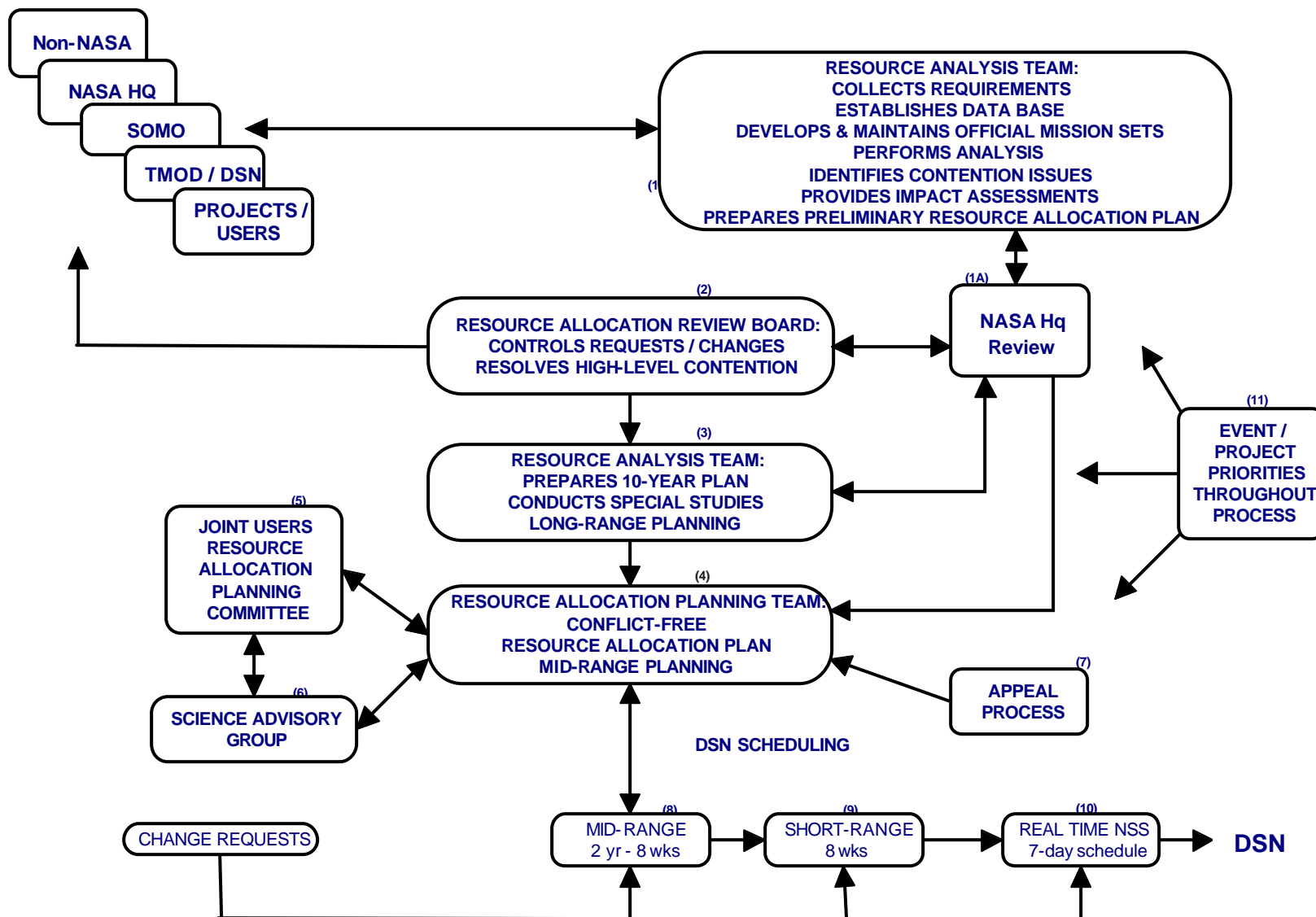


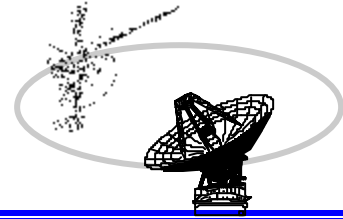
# Interplanetary Network Directorate (IND) Deep Space Mission Systems (DSMS)



## Resource Allocation Planning & Scheduling Office (RAPSO)

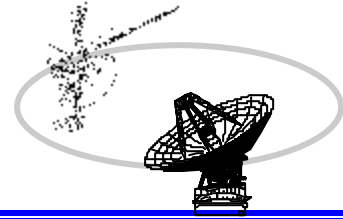
### RAPSO PROCESS





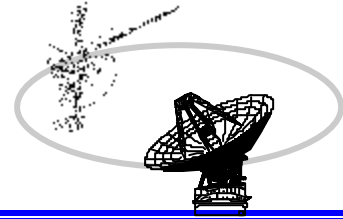
## DSN Mission Set Process

- Three Mission Sets (No Duplicate Entries)
- Semi-Annual Request in November and May
  - Inputs From All Known DSN Missions
  - Code S Validation Requested
- Ad-hoc Inputs
  - New Announcements, Proposal Work, etc.
  - Review of Mission Set Here at GSFC
- Code S Responsibility



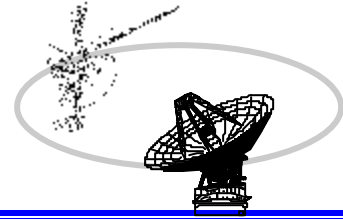
## DSN Mission Set Definitions

- DSN User / Mission Planning Set
  - Used to Support Semi-Annual Resource Allocation Review Board and Special Studies
  - Ongoing/Planned Projects
    - Missions in Formulation Phase (C & D) or Operational Phase (E)
    - Ground-Based Science Activities; e.g., Radio Astronomy and RADAR
    - DSN Maintenance and Antenna Calibrations
  - Advanced Planning Projects
    - Includes Missions in Implementation Phase (A & B)



## DSN Mission Set Definitions

- DSN 26M LEO User / Mission Planning Set
  - Launch and Early Operations Phase (LEOP) Only Support (e.g., ProSEDS)
    - Reimbursable Support (e.g., DRTS-W)
    - LEOP/E – LEOP and Possible Emergency Support (e.g., GOES and TDRS)
  - Emergency, Proficiency or Contingency Support
  - Routine – As Time Available Support (e.g., Yohkoh)



## DSN Mission Set Definitions

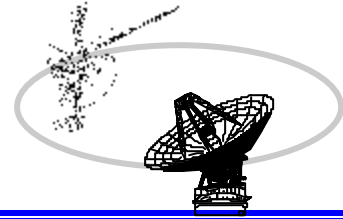
- DSN Future Mission Set
  - Used For DSN Capacity Studies
  - NASA Programs
    - Discovery
    - Space Technology
    - MIDEX
  - High Science Priority Study Missions
    - Pre-Phase A Missions
  - Co-Operative Mission Placeholders





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Deep Space Mission Systems (DSMS)**

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**DSN User / Mission Planning Set**

**DSN 26M LEO User / Mission Planning Set**

**DSN User / Future Mission Planning Set**

**Major DSN Downtimes by Site by Year**

Go to this web page to view the items listed above:

**<http://rapweb.jpl.nasa.gov/planning.htm>**